

[54] READING REGISTERS OF THE  
CHARGE-COUPLED DEVICE TYPE WITH  
WIDE RANGE OF OUTPUT

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357/24, 24 M; 307/607; 358/213.23, 213.24,  
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[57] ABSTRACT

Disclosed is a reading register of the type formed, firstly, by a shift register of the charge-coupled device type working according to a mode other than a two-phase mode and, secondly, an output circuit. It is notably an object of the invention improve the dynamic range, in amplitude, of the output signal delivered by the output circuit for supply voltages. The reading register has a substrate, bearing a shift register and an output circuit, separated from each other by an output gate. The shift register includes a sequence of transfer stages, each having at least three electrodes receiving transfer pulses of different phases, this sequence of stages being separated from the output gate by a last transfer stage or output transfer stage having at least three successive electrodes. According to one characteristic of the invention, the last two electrodes of the transfer stage are connected to each other and receive one and the same voltage pulse. The invention can be applied to reading registers for memory devices, photo-sensitive devices for cameras, etc.

4 Claims, 4 Drawing Sheets

